

WHAT IS CLAIMED IS:

1. A vehicular seat having a forward movable headrest, comprising:

5 a main frame which is provided to a seat back which supports a back of an occupant who sits in, the main frame including an upper frame which is positioned at an upper part of the seat back and extends in a widthwise direction of the seat back, and a pair of side frames which extend downward from both ends of the upper frame;

10 a headrest support frame which is arranged at an upper part of the main frame and can move from a first position in the vicinity of the upper frame to a second position close to the occupant;

15 a headrest which is attached to the headrest support frame and opposed to a head of the occupant; and

20 an actuator unit which is attached along the upper frame, generates a drive force when an impulse force equal to or above a predetermined value is applied to a vehicle, and moves the headrest support frame in a direction along which it approaches the occupant by transmitting the drive force to the headrest support frame.

25 2. The vehicular seat according to claim 1, wherein the actuator unit is arranged at a lower part of an intermediate portion of the upper frame in a

widthwise direction in such a manner that its drive force can be applied to a substantially central part of the headrest support frame in the widthwise direction.

3. The vehicular seat according to claim 1,
5 wherein the headrest support frame has an upper portion which is arranged in substantially parallel with the upper frame on a front side of the upper frame, and the actuator unit comprises:

a piston which moves in a direction along the
10 upper frame;

a cam member which can enter a gap between the upper frame and the upper portion of the headrest support frame;

a transmission mechanism which transmits movement
15 of the piston to the cam member, and thrusts the headrest support frame toward the second position by causing the cam member to enter the gap between the upper frame and the upper portion of the headrest support frame; and

20 a stopper which is provided to the main frame and receives the headrest support frame when the headrest support frame moves to the second position.

4. The vehicular seat according to claim 3, wherein the cam member comprises:

25 a slope portion which thrusts the headrest support frame toward the second position in process of entering of the cam member into the gap between the upper frame

and the upper portion of the headrest support frame;
and

5 a flat portion which holds the headrest support
frame between itself and the stopper upon completion of
entering of the cam member into the gap between the
upper frame and the upper portion of the headrest
support frame.

5. The vehicular seat according to claim 3,
wherein the transmission mechanism includes:

10 a link which is supported by the upper frame so as
to be capable of swiveling and has a wall which moves
along the gap between the upper frame and the headrest
support frame by the piston; and

the cam member provided to the wall.

15 6. The vehicular seat according to claim 1,
further comprising a return spring which urges the
headrest support frame toward the first position.

7. The vehicular seat according to claim 1,
wherein the headrest support frame comprises:

20 an upper portion which is arranged along the upper
frame and extends in a horizontal direction; and

a pair of side portions which extend downward from
both ends of the upper portion along the side frame and
are supported to the side frame so as to be capable of
25 swiveling in a front-and-back direction.

8. The vehicular seat according to claim 1,
wherein the headrest support frame comprises:

an upper portion which is arranged along the upper frame and extends in a horizontal direction; and

a pair of brackets which extend downward from both ends of the upper portion along the side frame and each of which consists of a plate member supported to the side frame so as to be capable of swiveling in a front-and-back direction.

9. The vehicular seat according to claim 1, further comprising a deceleration mechanism which decelerates a moving speed when the headrest support frame moves from the first position toward the second position.

10. The vehicular seat according to claim 5, further comprising a deceleration mechanism which decelerates a moving speed when the headrest support frame moves from the first position toward the second position,

wherein the deceleration mechanism includes a convex portion provided to the link which is in friction with the upper frame when the link swivels.

11. The vehicular seat according to claim 8, further comprising a deceleration mechanism which decelerates a moving speed when the headrest support frame moves from the first position toward the second position,

wherein the deceleration mechanism includes a convex portion which is formed to the bracket and is in

friction with the upper frame when the link swivels.

12. The vehicular seat according to claim 8,
further comprising a deceleration mechanism which
decelerates a moving speed when the headrest support
5 frame moves from the first position toward the second
position,

wherein the deceleration mechanism includes:

a slot which is formed to the bracket and has a
rear end with a narrow width; and

10 a stopper member which is fixed to the upper frame
and inserted into the slot, the stopper member meshing
with the rear end of the slot when the link swivels.